

Docket No. AB-184U

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claim 1 (original): A cranial sealing plug assembly adapted for insertion into a burr hole having a size D2 made in a patient's skull, comprising:

a burr hole plug ring insertable into the burr hole so as to be flush with the patient's skull, the plug ring having an opening through its center which allows access into the burr hole; and

a sealing member that seals the opening through the center of the plug ring; wherein the burr hole plug ring has a diameter D1 that is slightly larger than the size D2 of the burr hole, thereby creating a compression force that prevents movement of a lead passing through the sealing member; and

wherein the compression force further stabilizes the burr hole plug assembly in the burr hole.

Claim 2 (original): The cranial sealing plug assembly of Claim 1 wherein the sealing member comprises a septum.

Claim 3 (original): The cranial sealing plug assembly of Claim 1 wherein the burr hole plug ring includes at least one segment made from a compressible biocompatible material, and at least another segment made from a non-compressible biocompatible material.

Claim 4 (original): The cranial sealing plug assembly of Claim 3 wherein there are at least two segments made from the compressible biocompatible material, and at least three segments made from the non-compressible biocompatible material.

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Claim 5 (original): The cranial sealing plug assembly of Claim 3 wherein the compressible biocompatible material compresses an elastomer selected from the group consisting of: silicone rubber and polyurethane.

Claim 6 (original): The cranial sealing plug assembly of Claim 3 wherein the non-compressible biocompatible material is selected from the group consisting of: epoxy, polyurethane, and titanium, and alloy/compounds of epoxy, polyurethane, and titanium.

Claim 7 (original): The cranial sealing plug assembly of Claim 1 wherein the sealing member and burr hole plug ring have a radial slit therein for accommodating a lead or cannula passing therethrough.

Claim 8 (original): The cranial sealing plug assembly of Claim 1 further including at least one O-ring insert adapter having an outer diameter adapted to snugly fit within the burr hole, and an inner diameter adapted to receive the plug assembly.

Claim 9 (original): The cranial sealing plug assembly of Claim 8 further including a plurality of O-ring insert adapters, each having a different outer diameter adapted to snugly fit within respective burr holes of varying sizes, and each having an inner diameter adapted to receive the plug assembly, whereby the plug assembly may be inserted into burr holes of varying sizes.

Claims 10 - 27 canceled